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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,128	11/19/2003	James Mac Freitag	HIT1P027/HSJ9-2003-0150US 7028 EXAMINER		
50535 7	7590 09/21/2006				
ZILKA-KOTAB, PC			CHEN, BRET P		
P.O. BOX 721 SAN JOSE, C	OX 721120 OSE, CA 95172-1120		ART UNIT	PAPER NUMBER	
, .			1762		
			DATE MAILED: 09/21/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/717,128	FREITAG ET AL.	
Office Action Summary	Examiner	Art Unit	
	B. Chen	1762	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a not will apply and will expire SIX (6) MON te, cause the application to become AB	CATION. Apply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 05.	July 2006.		
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.		
3) Since this application is in condition for allowa	ance except for formal matte	ers, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application	n.		
4a) Of the above claim(s) 13-15,17 and 18 is/s		ration.	
5) Claim(s) is/are allowed.			
6) Kight Claim(s) <u>1-12,16 and 19</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers	, ,		
9)☐ The specification is objected to by the Examin	er.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b)☐ objected to t	by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct		• •	•
11) The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documen			
2. Certified copies of the priority documen	· ·	·	
 Copies of the certified copies of the price application from the International Burea 	•	received in this National Stage	
* See the attached detailed Office action for a lis	• • • • • • • • • • • • • • • • • • • •	received	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08))/Mail Date formal Patent Application	
Paper No(s)/Mail Date	6) Other:	* *	

DETAILED ACTION

Claims 1-19 are pending in this application. Amended claim 16 and newly added claim 19 are noted. Claims 13-15, 17-18 have been withdrawn from consideration as being directed to a nonelected invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-12, 16, 19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claim 1, the phrase "wherein at least one of the AP pinned layer structure and the free layer are formed by a process other than ion beam deposition" is deemed new matter as there is no support for such a limitation in the original specification as filed. The same issue applies to the phrase in claim 16 which reads "wherein at least one of the free layer and antiparallel (AP) pinned layer structure are formed by a method other than ion beam deposition".

In newly added claim 19 line 4, the term "wafer" is deemed new matter.

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Claims 1-12, 16, 19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In claim 1, the applicant requires at least one of the AP pinned layer structure and the free layer to be formed by a process other than ion beam deposition. The specification is not enabled for such a limitation. The specification clearly states the benefits of using IBD over the current state of the art process, i.e., plasma vapor deposition (PVD) (paragraph bridging pp.15-16). The same issue applies to claim 16.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Chen whose telephone number is (571) 272-1417. The examiner can normally be reached on 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bc 9/16/06

BRET CHEN
PRIMARY EXAMINER